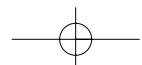
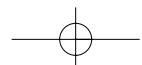


**CD-772**  
COMPACT DISC PLAYER

 **Sherwood**  
**NEWCASTLE**

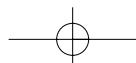
5707-00000-008-0S





**OPERATING INSTRUCTIONS**

**CD-772**  
*COMPACT DISC PLAYER*



## Introduction

### READ THIS BEFORE OPERATING YOUR UNIT



**CAUTION** : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**WARNING : TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK,  
DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

### FCC INFORMATION(FOR U.S.A.)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**CAUTION :** Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**CLASS 1  
LASER PRODUCT**

**CAUTION**

Invisible laser radiation when the unit is open.  
Do not stare into beam.

**CAUTION :** USE OF ANY CONTROLS, ADJUSTMENTS, OR PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

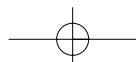
### NOTE ON RECYCLING (FOR EUROPE)

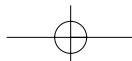
This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with the local recycling regulations.

When discarding the unit, comply with local rules or regulations.

Batteries should never be thrown away or incinerated but disposed of in accordance with the local regulations concerning chemical waste.

This product and the accessories packed together constitute the applicable product according to the WEEE directive except batteries.



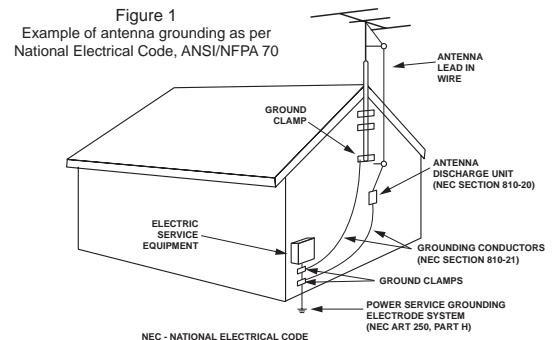


# SAFETY INSTRUCTIONS

1. **Read Instructions** - All the safety and operating instructions should be read before the product is operated.
2. **Retain instructions** - The safety and operating instructions should be retained for future reference.
3. **Heed Warnings** - All warnings on the product and in the operating instructions should be adhered to.
4. **Follow Instructions** - All operating and use instructions should be followed.
5. **Cleaning** - Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
6. **Attachments** - Do not use attachments not recommended by the product manufacturer as they may cause hazards.
7. **Water and Moisture** - Do not use this product near water - for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement, or near a swimming pool; and the like.
8. **Accessories** - Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
9. A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.
10. **Ventilation** - Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
11. **Power Sources** - This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
12. **Grounding or Polarization** - This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
13. **Power-Cord Protection** - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
14. **Outdoor Antenna Grounding** - If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure 1.



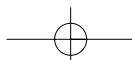
POTABLE CART WARNING

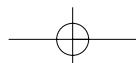


15. **Lightning** - For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
16. **Power Lines** - An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
17. **Overloading** - Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
18. **Object and Liquid Entry** - Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
19. **Servicing** - Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
20. **Damage Requiring Service** - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
  - a) When the power-supply cord or plug is damaged,
  - b) If liquid has been spilled, or objects have fallen into the product,
  - c) If the product has been exposed to rain or water,
  - d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
  - e) If the product has been dropped or damaged in any way, and
  - f) When the product exhibits a distinct change in performance - this indicates a need for service.
21. **Replacement Parts** - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
22. **Safety Check** - Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
23. **Wall or Ceiling Mounting** - The product should be mounted to a wall or ceiling only as recommended by the manufacturer.
24. **Heat** - The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

**Notes:**

1. Item 12 is not required except for grounded or polarized product.
2. Item 14 and 16 are not required except for units provided with antenna terminals.
3. Item 14 complies with UL in U.S.A.





## FOR YOUR SAFETY

<b>U.S.A and CANADA</b>	<b>120 V</b>	<p>Units shipped to the U.S.A and Canada are designed for operation on 120 V AC only.</p> <p>Safety precaution with use of a polarized AC plug. However, some products may be supplied with a nonpolarized plug.</p> <p><b>CAUTION</b> : To prevent electric shock, match wide blade of plug to wide slot, fully insert.</p> <p><b>ATTENTION</b> : Pour éviter chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu' au fond.</p>
<b>CHINA, EUROPE, AUSTRALIA</b>	<b>220 V - 240 V</b>	<p>Units shipped to China are designed for operation on 220 V AC only.</p> <p>To ensure safe operation, the three-pin plug supplied must be inserted only into a standard three-pin power point which is effectively earthed through the normal household wiring. Extension cords used with the equipment must be three-core and be correctly wired to provide connection to earth. Improper extension cords are a major cause of fatalities. The fact that the equipment operates satisfactorily does not imply that the power point is earthed and that the installation is completely safe.</p> <p>For your safety, if in any doubt about the effective earthing of the power point, consult a qualified electrician.</p> <p><b>PAN-EUROPEAN UNIFIED VOLTAGE</b></p> <p>All units are suitable for use on supplies 220-240 V AC.</p>

## CAUTION

- Leave a space around the unit for sufficient ventilation.
- Avoid installation in extremely hot or cold locations, or in an area that is exposed to direct sunlight or heating equipment.
- Keep the unit free from moisture, water, and dust.
- Do not let foreign objects in the unit.
- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloths, curtains, etc.
- No naked flame sources, such as lighted candles, should be placed on the unit.
- Please be care the environmental aspects of battery disposal.
- The unit shall not be exposed to dripping or splashing for use.
- No objects filled with liquids, such as vases, shall be placed on the unit.
- Do not let insecticides, benzene, and thinner come in contact with the set.
- Never disassemble or modify the unit in any way.

Notes on the AC power cord and the wall outlet

- The unit is not disconnected from the AC power source(mains) as long as it is connected to the wall outlet, even if the unit has been turned off.
- When disconnecting the power cord from the wall outlet, always pull the plug, not the power cord.
- Disconnect the plug from the wall outlet when not using the unit for long periods of time.
- The wall outlet shall be installed near the unit and shall be easily accessible.

## PRECAUTIONS

### Moisture condensation

Moisture may form on the lens in the following conditions.

- Immediately after a heater has been turned on.
- In a steamy or very humid room.
- When this unit is moved from a cold place to a warm one.

If moisture forms inside this unit, it may not operate properly.

In this case, turn on the power and wait about one hour for the moisture to evaporate.

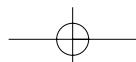
If there is noise interference on the TV while a broadcast is being received.

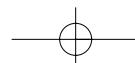
Depending on the reception condition of the TV, interference may appear on the TV screen while you are watching a TV broadcast and this unit is left on. This is not a malfunction of this unit or the TV. To watch a TV broadcast, turn off this unit.

Do not transport this unit with discs left in it.

Do not place on the component such as amplifier or receiver that generates heat.

If so, the temperature inside this unit rises and malfunction may occur.





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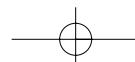
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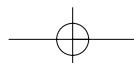
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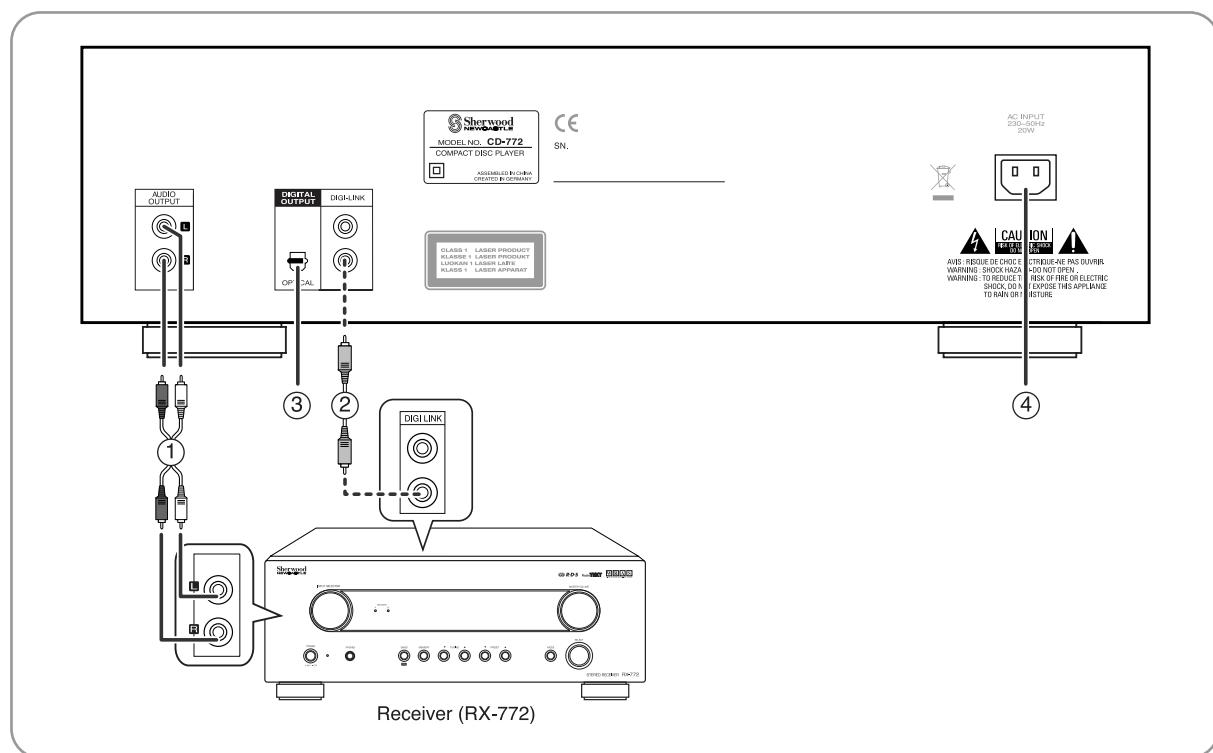
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## Rear Panel Connections

- Do not plug the AC input cord into the wall AC outlet until all connections are completed.
- Be sure to connect the white plugs to the L(Left) and the red plugs to the R(Right) jacks when making connections with the supplied cords.
- Refer to the connecting diagram in the operating instructions of your amplifier/receiver.



### 1. Connecting AUDIO OUTPUT jacks

Connect these jacks to CD (or AUX) INPUT jacks of your amplifier/receiver.

### 2. Connecting DIGI-LINK jack

Connect this jack to the DIGI-LINK jack of Sherwood system amplifier/receiver such an RX-772, etc. to control this unit remotely by DIGI-LINK system. (For details, refer to the operating instructions of Sherwood amplifier/receiver.)

#### Note :

- The DIGI-LINK operation may not work on some Sherwood components.

### 3. Connecting OPTICAL DIGITAL OUTPUT jack

Connect this jack to the OPTICAL DIGITAL INPUT jack of your amplifier/receiver to enjoy live digital sound.

#### Notes :

- It is not recommended to record digital audio signals with digital audio connection between this unit and MD and CD recorder, etc.  
When recording the sounds played on this unit, record them through the AUDIO OUTPUT jacks.
- All of the commercially-available optical fiber cords cannot be used for audio components.  
If there is an optical fiber cord which cannot be connected to your components, consult your dealer or nearest service organization.

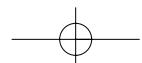
### 4. AC INPUT

Plug the supplied AC input cord into this AC input and then into the wall AC outlet.

#### Note :

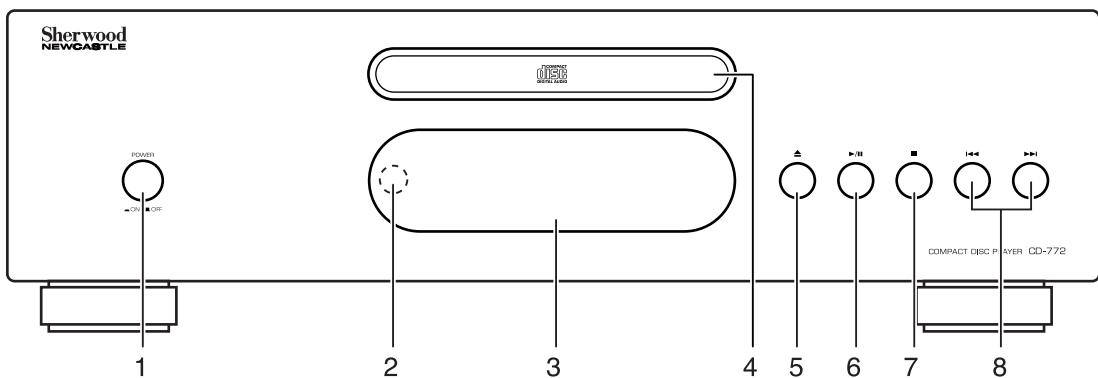
- Do not use an AC input cord other than the one supplied with this unit. The AC input cord supplied is designed for use with this unit and should not be used with any other device.



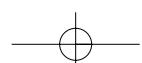
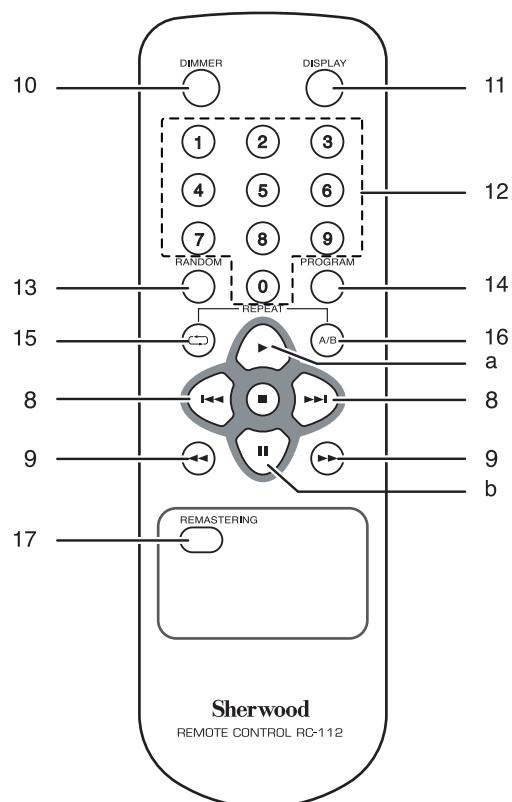


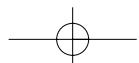
## Front Panel & Remote Controls

### Front Panel Controls



### Remote Controls



**1. POWER SWITCH**

Push this switch to turn the power on and to enter the operating mode.  
To switch the power off, push again this switch.

**2. REMOTE SENSOR****3. FLUORESCENT DISPLAY****4. DISC TRAY**

Load a disc on the disc tray.

**5. OPEN/CLOSE (▲) BUTTON**

Press this button to open or to close the disc tray.

**6. PLAY/PAUSE (▶/■) BUTTON**

- Press this button to start play in the stop or pause mode.
- Press this button to interrupt play temporarily and press again to resume play.

**7. STOP (■) BUTTON**

Press this button to stop play.

**8. REVERSE/FROWARD SKIP (◀◀ / ▶▶) BUTTONS**

Press the button to skip to the previous track or the next track.

**9. REVERSE/FROWARD SEARCH (◀◀ / ▶▶) BUTTONS**

Press and hold down the button to search for a specific passage in fast reverse or in fast forward.

**10. DIMMER BUTTON**

Press this button to select the brightness of the fluorescent display as desired.

**11. DISPLAY BUTTON**

Press this button to display the different time information on the audio CD or the different name information, etc. on the MP3 disc.

**12. NUMERIC (0~9) BUTTONS**

Press the corresponding buttons to select a track for play or programming.

**13. RANDOM PLAY BUTTON**

Press this button to play tracks in random order.

**14. PROGRAM BUTTON**

Press this button to program your favorite tracks.

**15. REPEAT (⟳) BUTTON**

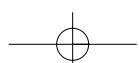
Press this button to play a track, a folder or a disc repeatedly.

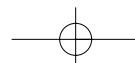
**16. REPEAT A/B BUTTON**

Press this button to play a specific passage repeatedly.

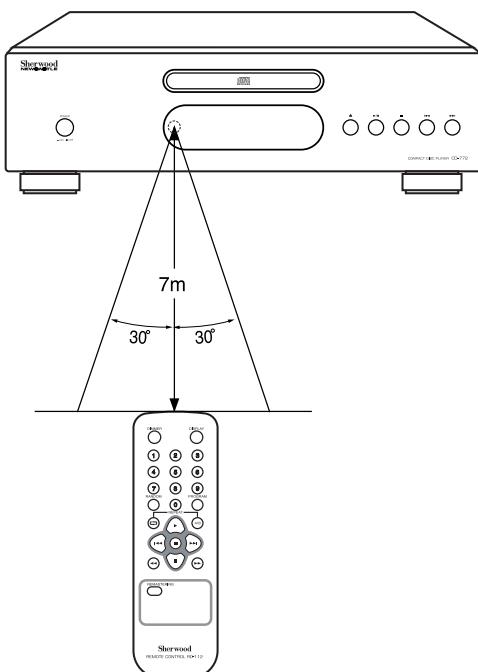
**17. REMASTERING BUTTON**

Press this button to process the audio signal readed from the disc and to converts its sampling frequency to 192 kHz for a more detailed sound quality.





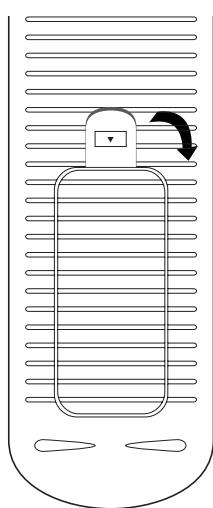
## REMOTE CONTROL OPERATION RANGE



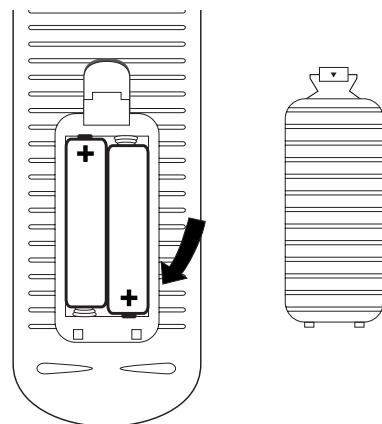
- Use the remote control unit within a range of about 7 meters (23 feet) and angles of up to 30 degrees aiming at the remote sensor.

## LOADING BATTERIES

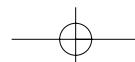
1. Remove the cover.

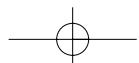


2. Load two batteries ("AAA" size, 1.5 V) matching the polarity.



- Remove the batteries when they are not used for a long time.
- Do not use the rechargeable batteries (Ni-Cd type).





## Preliminary Knowledge About Discs

### PLAYABLE DISCS

This unit supports the following discs.

Disc	Logo	Format or file type
Audio CD		PCM
CD-R		Audio CD, MP3
CD-RW		Audio CD, MP3

- This unit supports CD-R and CD-RW discs recorded in audio CD (CD-DA) format or MP3 format.

### Unplayable discs

- Since this unit cannot support disc types, formats and file types not listed above, do not play such discs.
- Some CD-R and CD-RW discs cannot be played due to incomplete disc finalization, recording quality or physical condition of the disc, characteristics of recording device or authoring software, etc. See the operating instructions supplied with your recording device for more information.
- Some audio CDs use copy protection that doesn't conform to the official CD standard. Since these are non-standard discs, this unit cannot play them properly.
- This unit cannot play DTS CD.

### Discs made on personal computers

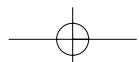
- Discs made on personal computers, including those of a compatible format, may not work properly in this unit because of incorrect settings in the disc burning software. Check the operating instructions supplied with your disc burning software for additional compatibility information.

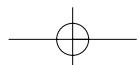
### MP3 COMPATIBILITY

- MP3 discs must be ISO 9660 Level 1 or Level 2, Joliet compliant. Supported formats : Mode 1, Mode 2.
- Folders can be up to eight levels deep.
- MP3 files must be MPEG-1/MPG-2 Audio Layer 3 format with a sampling rate of between 16 kHz and 48 kHz and a bit-rate of between 32 kbps and 320 kbps (128 kbps or 192 kbps recommended). Incompatible files cannot be played.
- Fixed bit-rate MP3 files are recommended, however, variable bit-rate (VBR) MP3 files between 8 kbps and 320 kbps are supported (Playing times may display incorrectly).
- MP3 files must have a ".mp3" or ".MP3" file name extension. MP3 files without the proper extension will not be recognized. To prevent noise and malfunction, do not use these extensions for other types of files.
- This unit supports up to 500 MP3 files and up to 200 folders per disc. (In this case, Disc and File names contain 30 characters and Folder names contain 20 characters.) Files and folders in excess of this cannot be played. Note that if the file and folder structure is very complicated, this unit may not be able to read or play all of the MP3 files on the disc. If the disc, folder or file names contain many characters, this unit may not support 500 MP3 files.
- Disc names may contain up to 30 characters. File and folder names may contain up to 60 characters.
- Characters except "A~Z", "a~z", "0~9", "-", etc. cannot be played.
- Multisession discs are supported, however, some multisession discs may take a long time to load and some may not load at all. When burning CDs we recommend that you use a single session (disc-at-once), and select "Disc Close".
- The ID3 tag version 1.0 is supported.

**Note :**

- With CD-R and CD-RW discs that contain many files and folders, and files other than MP3s, it may take a long time to read the disc. We recommend that you include only MP3 files on your disc, use about 20 folders, and limit folder nesting to three levels deep.





## CARE AND HANDLING OF DISCS

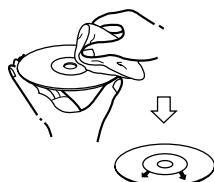
- In handling a disc, hold it carefully with edges.



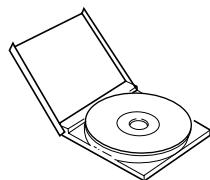
- Do not stick paper or write anything on the printed surface.



- Fingermarks and dust on the recorded surface should be carefully wiped off with a soft cloth. Wipe straight from the inside to the outside of the disc.



- Always keep the discs in their cases after use to protect them from dust and scratches.

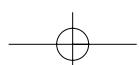
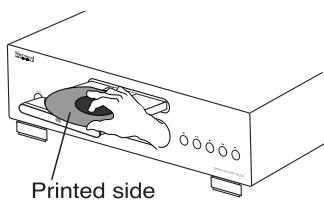


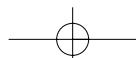
- Do not use a cracked, deformed, or repaired disc. These discs are easily broken and may cause serious personal injury and apparatus malfunction.



**Notes:**

- Do not expose discs to direct sunlight, high humidity or high temperature for a long time.
- When loading or unloading a disc in the disc tray, always place it with the printed side up.





## Operations

- In this operating instructions, MP3 files are referred to as tracks.

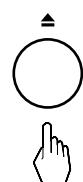
### PLAYING CDS

- Turn the power on.



- The power is turned on and this unit enters the operating mode.
- To switch the power off, push the POWER switch again.

- Open the disc tray to load a disc with the printed side up, then close it.



When loading a audio CD

CD 11Tr 55:32T

— — — — —

Total tracks Total playing time Stop mode

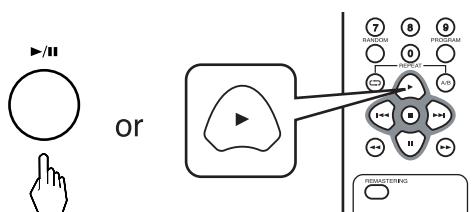
When loading a MP3 disc

MP3 19Tr 13Dir

— — — — —

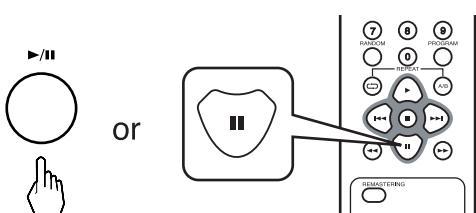
Total tracks (files) Total folders Stop mode

- Start play.



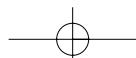
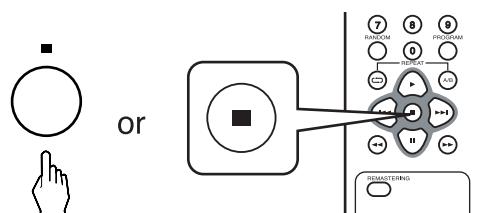
- "▶" indicator is displayed and play starts.

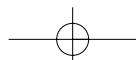
- To interrupt play temporarily.



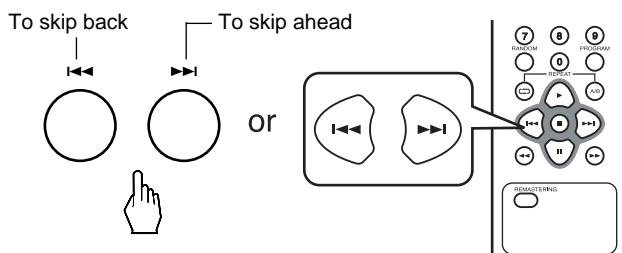
- "II" indicator is displayed and play is paused.
- To resume play, press this button again.

- To stop play.





### To select tracks during play



- You can select a track with pressing the NUMERIC buttons on the remote control.

Example : For "3" : ③

For "15" : ① within 2 sec. ⑤

For "127" : ① within 2 sec. ② within 2 sec. ⑦

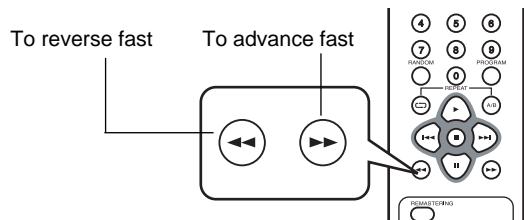
- Each time the button is pressed, a track is skipped.
- When the REVERSE SKIP (◀) button is pressed once midway through a track, play returns to the beginning of that track. When it is pressed again, a track is skipped.

#### Notes :

- During random play or program play, you cannot select a track with pressing the NUMERIC buttons.
- During random play, you cannot move the track that is currently playing to other tracks with pressing the REVERSE SKIP (◀) button.

### To fast forward or fast reverse during play

- Press and hold down the button until the desired passage is reached.



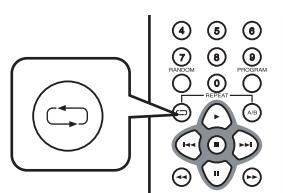
- For MP3 discs, fast reverse only works within the MP3 track that is currently playing.

### REPEAT PLAY

- You can play a track, a folder (for MP3 disc only), a disc, or a specific passage repeatedly.

#### Repeating a track, a folder, a disc

During play of the desired track or folder, press the REPEAT (⟳) button.



- Then the selected repeat mode is displayed.

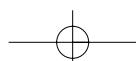
- Each time this button is pressed, the repeat mode changes depending on the disc types as follows :

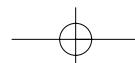
- In case of Audio CD
  - A - RPT : Entire disc repeat
  - 1 - RPT : Track repeat
  - Off : Repeat mode off

- In case of MP3 disc
  - A - RPT : Entire disc repeat
  - F - RPT : Folder repeat
  - 1 - RPT : Track repeat
  - Off : Repeat mode off

#### Notes :

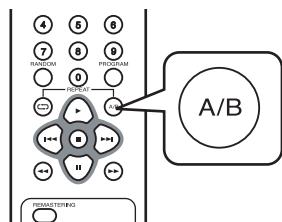
- During program play of MP3 disc, you cannot select "F - RPT" (folder repeat).
- During random play of MP3 disc, you cannot select any repeat mode.





### Repeating a specific passage

1. During play at the beginning of the desired passage, press the REPEAT A/B button.



- Then "A" is displayed.

2. At the end of the desired passage, press the REPEAT A/B button again.

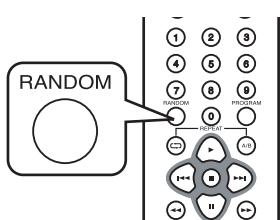
- Then "AB" is displayed and the passage between points A and B is played repeatedly.
- To cancel the repeat A/B play, press the REPEAT A/B button again.

Note:

- Repeat A/B play works only within a track.

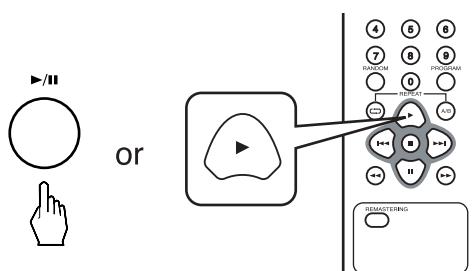
### PLAYING TRACKS IN RANDOM ORDER

1. In the stop mode, press the RANDOM PLAY button.

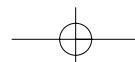


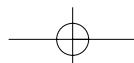
- Then "RDM" is displayed.

2. Start random play.



- The unit automatically selects and plays tracks in random order.
- To cancel the random play, press the STOP ( ) button to enter the stop mode and press the RANDOM PLAY button. Then, "RDM" disappears.

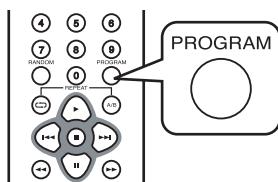




## PLAYING TRACKS IN DESIRED ORDER (PROGRAM PLAY)

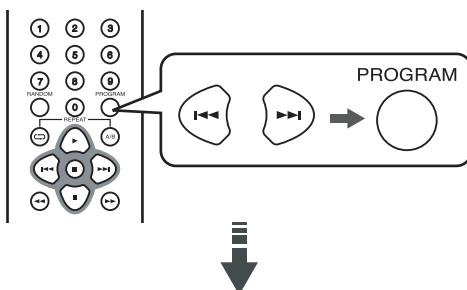
- Up to 20 tracks can be programmed to be played in any desired order.

### 1. In the stop mode, press the PROGRAM button.



- Then "PGM" is displayed.

### 2. Select the desired track and store it in the memory.



- You can select a track with pressing the NUMERIC buttons.

Example : For "3" : (3)  
 For "15" : (1) → (5) within 2 sec.  
 For "127" : (1) → (2) within 2 sec. → (7) within 2 sec.

- Then the selected track is stored automatically without pressing the PROGRAM button.

When selecting and storing track 2 on Audio CD.

2Tr 5:32 : Programmed track and its playing time.



2Tr P-01 : Programmed track and its programmed order.

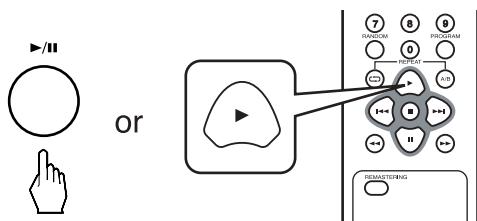


2Tr 5:32T : Last programmed track and total playing time of the programmed tracks.

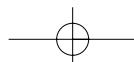
- In case of MP3 disc, playing time of the programmed track and total playing time of the programmed tracks cannot be displayed.
- When the total playing time is more than 99 min. 59 sec., "-- : --" will be displayed.

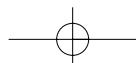
### 3. Repeat the above step 2 until the desired tracks are programmed.

### 4. Start program play.



- Play starts in the programmed order.

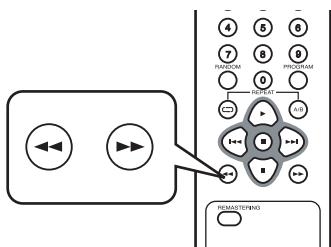




## Continued

### Checking the programmed tracks

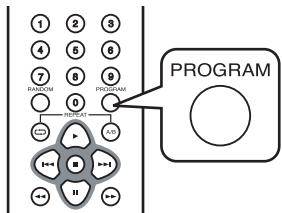
- In the program mode (meaning "PGM" is displayed in the stop mode), press the FORWARD/REVERSE SEARCH(  $\blacktriangleleft/\triangleright$  ) buttons.



- Each time these buttons are pressed, the programmed tracks are displayed in the programmed order or in the opposite order.

### Clearing the programmed tracks

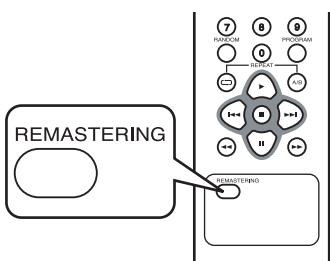
- In the program mode (meaning "PGM" is displayed in the stop mode), press the PROGRAM button.



- Then "PGM" disappears and the programmed tracks are all cleared.
- Opening the disc tray clears all programmed tracks.

## LISTENING TO MUSIC FOR A MORE DETAILED SOUND QUALITY

- The remastering processes the audio signal readed from the disc and converts its sampling frequency to 192 kHz for a more detailed sound quality.
- Press the REMASTERING button.

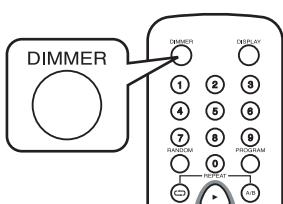


- Then "  $\ddot{\varepsilon}$  " is displayed.
- To turn off the remastering function, press the REMASTERING button again.

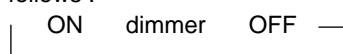
Note :

- The remastering function have no effect on the digital signals that are output from the OPTICAL DIGITAL OUTPUT jack of this unit.

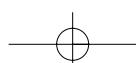
## ADJUSTING THE BRIGHTNESS OF THE FLUORESCENT DISPLAY

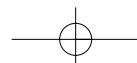


- Each time the DIMMER button is pressed, the brightness of the fluorescent display changes as follows :

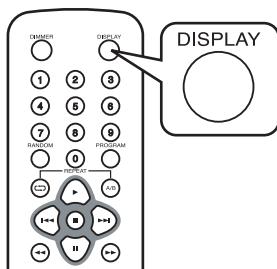


- In the display OFF mode, pressing any button will cancel the display OFF mode for several seconds to display the operation status.





## DISPLAYING DISC INFORMATION DURING PLAY



- Each time the DISPLAY button is pressed, the display mode changes depending on the disc types as follows :

- In case of Audio CD

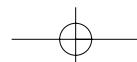
CD	1Tr	1:30
↓ Elapsed time of the current track		
CD	1Tr	5:16R
↓ Remaining time of the current track		
CD	1Tr	1:30P
↓ Elapsed time of the disc		
CD	1Tr	53:59T
↓ Remaining time of the disc		

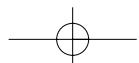
- In case of MP3 disc

MP3	1Tr	1:18
↓ Elapsed time of the current track		
Track Name :	Love	
↓ Name of the current track		
Folder Name :	AB	
↓ Name of the current folder		
Title Name :	My	
↓ Title of the current track (if ID3 tag present)		

### Notes :

- "UNKNOWN" will be displayed as title name if ID3 tag is absent.
- " " will be displayed for characters except "A~Z", "a~z", "0~9", " - ", etc..
- If the DISPLAY button is pressed in the stop mode, the disc name of the MP3 disc will be displayed.
- When the elapsed time or the remaining time of the disc is more than 99 min. 59 sec., "-- : --" will be displayed.



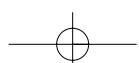


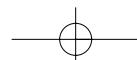
## Troubleshooting Guide

If a fault occurs, run through the table below before taking your unit for repair.

If the fault persists, attempt to solve it by switching the unit off and on again. If this fails to resolve the situation, consult your dealer. Under no circumstances should you repair the unit yourself as this will invalidate the guarantee!

PROBLEM	POSSIBLE CAUSE	REMEDY
No power	<ul style="list-style-type: none"> <li>The AC input cord is disconnected.</li> <li>The POWER switch is not pressed correctly.</li> </ul>	<ul style="list-style-type: none"> <li>Connect the cord securely.</li> <li>Press the POWER switch to ON.</li> </ul>
No play	<ul style="list-style-type: none"> <li>The disc is loaded upside down.</li> <li>Dirty disc.</li> <li>Defective or deeply scratched disc.</li> <li>The CD-R/CD-RW disc is nonstandard.</li> </ul>	<ul style="list-style-type: none"> <li>Reload the disc with the printed side up.</li> <li>Clean the disc.</li> <li>Load another disc.</li> <li>See "Unplayable discs" on page 10.</li> </ul>
No sound	<ul style="list-style-type: none"> <li>Incorrect connections.</li> <li>Incorrect operation of the amplifier/receiver.</li> <li>The "PAUSE" indicator lights up.</li> </ul>	<ul style="list-style-type: none"> <li>Make connections correctly.</li> <li>Operate the amplifier/receiver correctly.</li> <li>Press the "▶/PAUSE" button to cancel the pause mode.</li> </ul>
Poor or distorted sound	<ul style="list-style-type: none"> <li>The unit is connected to the PHONO input jacks of the amplifier/receiver.</li> <li>Poor connections.</li> </ul>	<ul style="list-style-type: none"> <li>Make connections correctly.</li> <li>Check the connections and connect all cords securely.</li> </ul>
Sound skips	<ul style="list-style-type: none"> <li>Defective or deeply scratched disc.</li> <li>This unit is placed on a surface that is subject to vibration or physical shock.</li> </ul>	<ul style="list-style-type: none"> <li>Play another disc.</li> <li>Place this unit on a stable surface.</li> </ul>
Programming does not perform.	<ul style="list-style-type: none"> <li>The disc is dirty or badly scratched.</li> <li>The programming procedure is not correct.</li> <li>The number of the programmed tracks is 20.</li> </ul>	<ul style="list-style-type: none"> <li>Try again with a scratch-free disc.</li> <li>Try again.</li> <li>Check the number of the programmed tracks.</li> </ul>
It takes a long time to read Audio CD/MP3 disc.	<ul style="list-style-type: none"> <li>It may take a longer time to read Audio CD/MP3 disc with many tracks, etc.</li> </ul>	<ul style="list-style-type: none"> <li>This is not malfunction.</li> </ul>





## Specifications

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### TYPICAL AUDIO PERFORMANCES

• Number of channels	2
• Frequency response, 20~20,000 Hz	±0.5 dB
• Signal to noise ratio, A Wtd.	103 dB
• Dynamic range	100 dB
• Total harmonic distortion, 1 kHz	0.006 %
• Wow and flutter	Quartz crystal precision
• Audio output level	2 V RMS
• Digital output, optical, wavelength 660 nm	-15 ~ -20 dBm

### OPTICAL READOUT SYSTEM

• Laser	Semiconductor AlGaAs
• Wavelength	760~800 nm
• Numerical aperture	0.45

### SIGNAL FORMAT

• Sampling Frequency	44.1 kHz
• D/A Conversion	Multibit (Sigma-delta conversion)
• Oversampling	8 times

### GENERAL

• Power supply	
U.S.A. and Canada	120 V ~ 60 Hz
Europe, Australia	230 V ~ 50 Hz
China	220 V ~ 50 Hz
• Power consumption	20 W
• Dimension (W x H x D, including protruding parts)	440 x 130 x 355 mm (17-3/8 x 5-1/8 x 14 inches)
• Weight (Net)	8.9 kg (19.6 lbs)

Note: Design and specifications are subject to change without notice for improvements.

